

L4 ANSWER 10 OF 45 CAPLUS COPYRIGHT 2003 ACS
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 DN 128:290997
 TI Evaluation of different microsatellite motifs for analyzing genetic relationships in cultivated sunflower (*Helianthus annuus*)
 AU Dehmer, K. J.; Friedt, W.
 CS Inst. Crop Sci. Plant Breeding, Justus-Liebig-Univ., Giessen, D-35390, Germany
 SO Plant Breeding (1998), 117(1), 45-48
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 PB Blackwell Wissenschafts-Verlag GmbH
 DT Journal
 LA English
 AB A total of 16 different simple sequence repeat motifs and an M13 repeat sequence were used as hybridization probes in order to examine the mol. relationships between two German inbred and eight North American sunflower lines of known pedigree, and to det. the suitability of the individual short tandem repeats for genetic analyses and their occurrence in the sunflower genome. Only the oligonucleotides (ACA)6, (CAT)6, (CATA)5, (GACA)4, and (GATA)4 proved to be well suited for the generation of scorable fingerprinting patterns, while the other (microsatellite) sequences were either too abundant or too rare. Although different levels of polymorphism were present in hybridizations with the different simple sequence repeats (SSRs), a clear sepn. of the German material from the USDA lines was feasible not only by evaluating 20 probe-enzyme combinations, but also by combining every individual probe with four different restriction enzymes. In the American material, the expected relationships could be proved with the single exception of a line that did not group in accordance with its pedigree.
 IT **116095-30-8**
 RL: ARG (Analytical reagent use); BUU (Biological use, unclassified); ANST (Analytical study); BIOL (Biological study); USES (Uses)
 (microsatellite motifs for analyzing genetic relationships in cultivated sunflower)
 RN 116095-30-8 CAPLUS
 CN Guanosine, thymidylyl-(5'.fwdarw.3')-2'-deoxyadenylyl-(5'.fwdarw.3')-2'-deoxyguanylyl-(5'.fwdarw.3')-2'-deoxyguanylyl-(5'.fwdarw.3')-thymidylyl-(5'.fwdarw.3')-2'-deoxyadenylyl-(5'.fwdarw.3')-2'-deoxyguanylyl-(5'.fwdarw.3')-2'-deoxyguanylyl-(5'.fwdarw.3')-thymidylyl-(5'.fwdarw.3')-2'-deoxyadenylyl-(5'.fwdarw.3')-2'-deoxyguanylyl-(5'.fwdarw.3')-2'-deoxyadenylyl-(5'.fwdarw.3')-2'-deoxyguanylyl-(5'.fwdarw.3')-2'-deoxy- (9CI) (CA INDEX NAME)

SEQ 1 ggatggatgg atggat

US 098977760CP1



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